

ABSTRACT

In the variable valve timing system according to the present invention, portions of the intake-side advancing hydraulic line and a retarding hydraulic line respectively constitute annular grooves 104 and 113 for advancing and retarding provided on the intake camshaft 5 bearing surface 5a of the cam cap 4 which supports the camshafts 5 and 6. In addition, portions of the advancing hydraulic line and the retarding hydraulic line for exhaust respectively constitute annular grooves for advancing and retarding 123 and 133 provided on the exhaust camshaft 6 bearing surface 4b of the cam cap 4. Moreover, the annular groove for retarding 113 on the intake camshaft 5 bearing surface 4a and the annular groove for advancing 123 on the exhaust camshaft 6 bearing surface 4b are respectively provided in the center in the width direction of their respective bearing surfaces 4a and 4b.